

# Research metabolomics assays

Our research metabolomics assays include:

## **Live Single Cell metabolomics:**

Required sample volume: single mammalian cells, frozen cell pellet, cells in 2D/3D culture, 10 microliters of sample

**What:** This assay reports untargeted metabolic measurements of single cells or volume-limited samples. Single cell drug monitoring can also be achieved if the drug can be suitably ionized and detected by mass spectrometry

**How:** Cells are cultured in their optimal environment, and under microscopic observation, sampled using micro glass capillaries. Ionization / extraction solvent is then added to the opposite end of the capillary. The capillary also acts as a nano-ESI source where ionization and spraying into an Orbitrap 480 mass spectrometer occurs. Data is processed and analyzed using our in-house data analysis pipeline and a putatively annotated feature list is generated and reported



*Instrumentation used for single cell metabolomics assay*